



ALMA – observatory report

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The Atacama Large Millimeter/submillimeter Array (ALMA) is the world's leading observatory for submillimeter astronomy. This report highlights groundbreaking science results from the past year ranging from the Solar System through protoplanetary disks and star-forming regions in the Milky Way, nearby galaxies, gas and dust in some of the most distant known galaxies, amongst others. Additionally, the talk will provide an update on ALMA's operational status and the Wideband Sensitivity Upgrade (WSU) project. The WSU will at least double the bandwidth of the ALMA signal chain, with a goal of quadrupling it, expand the correlated bandwidth by up to a factor of ~ 70 for high-spectral resolution observations, and improve the observing speed by $\sim 5x$ for continuum and $2-5x$ for spectral line observations (based on the upgraded Band 6 receiver specifications). These enhancements will push the boundaries of discovery and ensure ALMA is at the leading edge of exploration of the Universe.